BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE PROJECT: IMPROVEMENTS OF PATHWAY AND GRILL FENCING TO 3RD PHASE EWS PARK IN WARD NO-05

ESTIMATION

Est.Cost.Rs. 5000000

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (PWD SR 2021-22 Vol -I Pg 5 item No. 1.4 1)								
	For Vidhansoudha Grill								
	North Side	Cum	1	47.00	0.75	0.70	24.68		
	South side	Cum	1	47.00	0.75	0.70	24.68		
	West Side	Cum	1	16.50	0.75	0.70	8.66		
	East Side	Cum	1	12.00	0.75	0.70	6.30		
	Over Burden	Cum	1	46.00	15.00	0.60	411.24		
	Deduction								
	RO Plant	Cum	-1	4.10	4.70	0.60	-11.48		
	Play Area	Cum	-1	31.80	10.90	0.60	-206.59		
	Basic rate								
	Area weightage 10%							186.00	
	Total							18.60	
							257.48	**204.60**	**52681.00**
2	Providing and laying in position plain cement concrete for levelling course for all works in foundation The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates (PWD SR 2021-22 Vol -I Pg 15 item No. 2.1.3)								
	SSM Footing								
	For Vidhansoudha Grill								
	North Side	Cum	1	47.00	0.75	0.15	5.29		
	South side	Cum	1	47.00	0.75	0.15	5.29		
	West Side	Cum	1	16.50	0.75	0.15	1.86		
	East Side	Cum	1	12.00	0.75	0.15	1.35		
	Basic rate								
	Area weightage 10%							**5554.00**	
	Total							555.40	
							13.78	**6109.40**	**84196.00**
3	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) Pg No 09 item No 5.4								
	Below Ground								
	For Vidhansoudha Grill								
	North Side	Cum	1	47.00	0.60	0.60	16.92		
	South side	Cum	1	47.00	0.60	0.60	16.92		
	West Side	Cum	1	16.50	0.60	0.60	5.94		
	East Side	Cum	1	12.00	0.60	0.60	4.32		
	Above Ground								
	For Vidhansoudha Grill								
	North Side	Cum	1	47.00	0.45	0.60	12.69		
	South side	Cum	1	47.00	0.45	0.60	12.69		
	West Side	Cum	1	16.50	0.45	0.60	4.46		
	East Side	Cum	1	9.00	0.45	0.60	2.43		
	Deduction								
	For Vidhansoudh Grill Pole	Cum	40	0.45	0.45	0.45	-3.65		
	Basic rate								
	Area weightage 10%							5352.00	
	Total							535.20	
							72.72	**5887.20**	**428118.00**
4	Providing Flush/ Ruled pointing: Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge. (PWD SR 2021-22 Vol -II Pg 44 item No. 8.19.1)								
	For Vidhansoudha Grill								
	North Side	Sqm	2	47.00		0.60	56.40		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	South side	Sqm	2	47.00		0.60	56.40		
	West Side	Sqm	2	16.50		0.60	19.80		
	East Side	Sqm	2	9.00		0.60	10.80		
	Basic rate								
	Area weightage 10%							199.00	
	Total							19.90	
							143.40	**218.90**	**31391.00**
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.1)								
	Copping Concrete								
	For Vidhansoudha Grill								
	North Side	Cum	1	47.00	0.45	0.15	3.17		
	South side	Cum	1	47.00	0.45	0.15	3.17		
	West Side	Cum	1	16.50	0.45	0.15	1.11		
	East Side	Cum	1	9.00	0.45	0.15	0.61		
	For Vidhansoudh Grill Pole	Cum	40	0.45	0.45	0.45	3.65		
	Basic rate								
	Area weightage 10%							5880.00	
	Total							588.00	
							11.71	**6468.00**	**75749.00**
6	Fabricating, providing and erecting in position of MS. Hot dip galvanized Sq. Hallow Poles of 132*132 Heavy gauge of length 3000mm with MS. Hot dip galvanized grill work as per approved design and drawing of chief architect. Using 12*75mm galvanized flat for alround frame and 20mm 20mm galvanized- forged design with square for vertical at 150mm C/C as shown in the drawing including providing forged ornamental arrowhead at top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS Hollow galvanized pipe, flat, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per specification including loading with cost and conveyance of all materials, labour, machinery and incidental charges for the successful complete of the work as per the direction Engineer-in-charge of the work. (Data Rate)								
	For Vidhansoudha Grill								
	North Side	Sqm	1	47.00		1.80	84.60		
	South side	Sqm	1	47.00		1.80	84.60		
	West Side	Sqm	1	16.50		1.80	29.70		
	East Side	Sqm	1	9.00		1.80	16.20		
	Data Rate								
								15630.00	
	Total						**215.10**	**15630.00**	**3362013.00**
7	Fabricating, providing and erecting in position Hot dip galvanised Gate. Using 72*72*4.8mm Sq. GI Pipe frame with top pipe bending in heavy duty hydraolic press with sand packing and hot bending to form double arch as per drawing profile,20mm hot dip galvanised sq.rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq.rods and heads at top,middle and bottom Intermediate supports of 75*12mm and 50*6mm arch bent to hot dip galvanised flats the work is inclusive of throughing GI flat GI sq.rods,placing, welding all the joints including grinding, finishing metal patty,painting wo coats enamel painting. The rate is inclusive of all materials like GI sq pipe,GI.Sq.rods,GI forged designs etc., heavy duty hinges are made out of 75mm solid sq.block assembled with 20mm dia bearing in the three places for each flop. Heavy duty locking arrangements at low places including cost of labou,pailnting, erecting charges using hoist pulley cranes with all lead and lift, loading,transportation,unloading,scaffolding charges and all other incidental charges for sucessful completion of the work as per directions of the Engineer-in-charge of the work. (Data Rate)								
	New Gate	Sqm	1	3.00		2.10	6.3		
	Data Rate							21350.00	
	Total						**6.30**	**21350.00**	**134505.00**
8	**Loading and Unloading of Stone Boulder**/Stone aggregates/ Sand/Kankar/Moorum (Tipper 5.5 m3) (PWD SR 2021-22 Vol-III Page No.3, Item No.1.1A)								
	Qty Vide frm Item No-01	Cum					**257.48**		
	Basic rate							118.00	
	Area weightage 10%							11.80	
	Total						**257.48**	**129.80**	**33422.00**
9	**Cost of Haulage** Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4A)								
	Qty frm Item No-8	**t.Km**		257.48	1.28		**329.58**		
	8Km 12*8							96.00	
	Area Weightage 10%							9.60	
							329.58	**105.60**	**34804.00**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
								Total Amount	4236879.00
								GST Charges (18% of estimated cost)	762639.00
								Miscelleneous and rounding	482.00
								Grand Total	5000000.00
								RUPEES FIFTY LAKHS ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on, PWD SR 2021-22 and Data rates, PWD Electrical 2021-22, approved Rate, Issused Rates and Corrigendum 1, 2 & 3.

Assistant Engineer
BBMP

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ಜ ಜ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೧೦೬

Executive Engineer
BBMP

Administrative Approval
Accorded For R.S SD: & Archy
Head of A/C. P3075
CER NO :...169..... D: 8/3/23

TA

CE (YNK)

Technical Sanction
Accorded For R.S SD: & Archy
Head of A/C. P3075
CER NO :...187..... Dt: 8/3/23